

CLAIMS

What is claimed is:

1. A fluid filter comprising:
a housing having an end portion with a first aperture;
a center portion arranged in said housing and proximate to said end portion,
said center portion including a second aperture; and
a valve assembly supported by said center portion and including a relief valve
and an anti-drain back valve, said anti-drain back valve adjacent to said first aperture
for selectively blocking said first aperture, and said relief valve adjacent to said
second aperture for selective blocking said second aperture.
2. The fluid filter according to claim 1, wherein the valve assembly is an
elastomeric material.
3. The fluid filter according to claim 1, wherein the relief and anti-drain back
valves are integrally formed extending continuously from a first terminal end of said
relief valve to a second terminal end of said anti-drain back valve.
4. The fluid filter according to claim 1, wherein said terminal ends each include
enlarged portions respectively sealing against said end portion and center portion.
5. The fluid filter according to claim 1, wherein said center portion includes a
radially inwardly extending flange adjacent to said terminal end of said relief valve.

6. The fluid filter according to claim 1, wherein said valve assembly includes a U-shaped portion defining a recess with an end of said center portion received in said recess, said recess separating said relief and anti-drain back portions.
7. The fluid filter according to claim 6, wherein said U-shaped portion seals against said end portion preventing fluid flow past said U-shaped portion between said first and second apertures.
8. The fluid filter according to claim 1, wherein the valve assembly includes a circular cross-section.
9. The fluid filter according to claim 1, including a filter element arranged within said housing and defining a central opening, said center portion comprising a center tube arranged within said central opening.
10. The fluid filter according to claim 9, wherein said relief valve seals against an inner surface of said center tube in a closed position.

11. The fluid filter according to claim 9, wherein a side of said filter element adjacent to said center tube is a fluid outlet side and said opposing side of said filter element is a fluid inlet side, said relief valve arranged between said fluid inlet and outlet sides at said first aperture, and said anti-drain back valve arranged between said second aperture and said fluid inlet side.

12. The fluid filter according to claim 1, wherein said end portion is a tapping plate including a threaded central aperture.

13. The fluid filter according to claim 1, wherein said relief and anti-drain back portions are formed by annular lips oriented transverse to one another.

14. A fluid filter valve comprising:

an elastomeric structure extending from a first terminal end to a second terminal end with an anti-drain back valve including said first terminal and a relief valve including said second terminal end, said structure having a central hole arranged inwardly of said valves.
15. The fluid filter valve according to claim 14, including an annular recess separating said relief and anti-drain back valves.
16. The fluid filter valve according to claim 15, wherein said relief and anti-drain back valves include lips arranged transverse to one another.
17. The fluid filter valve according to claim 16, wherein said lips extend to said terminal ends with said terminal ends including enlarged portions.